

IN THE CLAIMS

14. (Amended) A method of detecting a target nucleic acid sequence comprising:
- a) hybridizing a first primer to a first portion of a target sequence, wherein said first primer further comprises an adapter sequence;
 - b) hybridizing a second primer to a second portion of said target sequence;
 - c) ligating said first and second primers together to form a modified primer;
 - d) contacting said adapter sequence of said modified primer with an array comprising:
 - i) a substrate with a patterned surface comprising discrete sites; and
 - ii) a population of microspheres comprising at least a first subpopulation comprising a first nucleic acid capture probe, that hybridizes to said adapter sequence, wherein said microspheres are distributed on said patterned surface; and
 - e) detecting the presence of said modified primer, to thereby detect said target nucleic acid sequence.
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